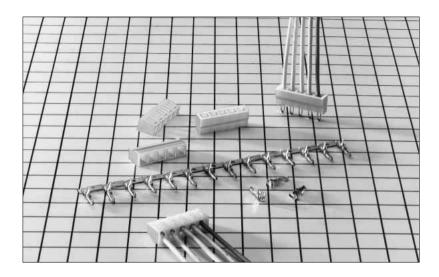
3.96mm Pitch Connector Directly Mounted on Board

DF6 Series



Features

1. Service Efficiency Up

Conventional thick cables are directly mounted on the board piece by piece, but connecterization has achieved soldering services in a batch. This product enhances soldering service efficiency.

2. Miniaturization

This product achieves miniaturization for thick cables.

Mounting height on board

: 7.5mm : 5.0mm

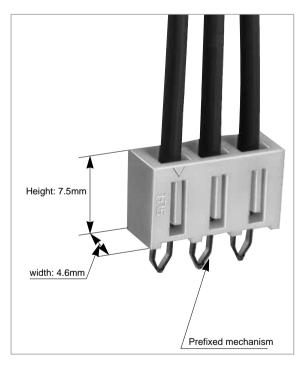
Width

3. Board Prefixed Mechanism

Since the connector is softly press-fitted to the board for insertion, it can be prefixed to the board.

Applications

Secondary power supply units for various equipment





■Product Specifications

	Current rating		AWG 18 :	5A	Operating Temperature Range	-35 to +85℃ (Note 1)
Rating		Cable size	AWG 20 :	4A	Operating Moisture Range	40 to 80%
Raung	(Note 1)		AWG 22 :	3A	Storage Temperature Range	-10 to +60°C (Note 2)
	Voltage rating		300V AC		Storage Humidity Range	40 to 70% (Note 2)

Item	Specification	Condition
1.Insulation Resistance	1000M ohms min.	500V DC
2.Withstanding voltage	No flashover or insulation breakdown.	1500V AC/1 minute
3.Contact Resistance	15m ohms max.	100mA
4.Vibration	No damage, cracks, or parts looseness.	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.
5.Humidity (Steady state)	No damage, cracks, or parts looseness.	96 hours at temperature of 40° C and humidity of 90% to 95%
6.Temperature Cycle	No damage, cracks, or parts looseness.	(-55°C: 30 minutes →15 to 35°C: 10 minutes→85°C: 30 minutes→ 5 to 35°C: 10 minutes) 5 cycles
		Flow: 250℃ for 10 seconds
7. Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300°C for 3 seconds

Note 1: The rated current will be changed according to cable sizes for use.

Note 2: Includes temperature rise caused by current flow.

Note 3: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

Note 4: Information contained in this catalog represents general requirements for this Series.Contact us for the drawings and specifications for a specific part number shown.

Material

Product	Part	Material	Finish	Remarks
Crimping Plug	Insulator	Polyamide	White	UL94V-0
Crimping Contact for Plug	Brass	Copper Alley	Tin plated	

Ordering Information

•Crimping Plug

$\frac{DF6}{0} - \frac{*}{2} \frac{P}{6} - \frac{3.96}{4} \frac{C}{6}$

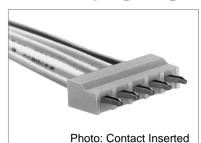
Series Name : DF 6	Contact pitch: 3.96mm
Number of contacts: 1~8, 10	6 C: Crimping plug
Connector type	
P: Plug	

Crimping Contact

$\frac{\mathsf{DF6A}}{\bullet} - \frac{1822}{\bullet} \frac{\mathsf{PCF}}{\bullet}$

Applicable cable type	Packaging type			
None : Jacket dia. 1.5mm to 2.2mm	PCF: Plug contact, reel packaging			
UL 1007	SC: Plug contact, bag packaging			
A : Jacket dia. 2.2mm to 2.9mm	SC. Flug contact, bag packaging			
UL 1015				
Applicable cable size				
1822 : AWG#18~#22				

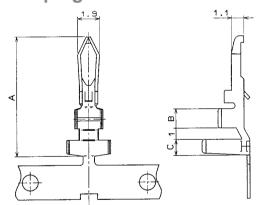
Precrimping Plug



Part Number	CL No.	Number of Contacts	Α	В	RoHS
i art Nulliber	OL NO.	NUMBER OF COMACIS	~	D	Rono
DF6- 1P-3.96C	546-0001-1	1	4.92		
DF6- 2P-3.96C	546-0002-4	2	8.88	3.96	
DF6- 3P-3.96C	546-0003-7	3	12.84	7.92	
DF6- 4P-3.96C	546-0004-0	4	16.80	11.88	
DF6- 5P-3.96C	546-0005-2	5	20.76	15.84	YES
DF6- 6P-3.96C	546-0006-5	6	24.72	19.80	
DF6- 7P-3.96C	546-0007-8	7	28.68	23.76	
DF6- 8P-3.96C	546-0008-0	8	32.64	27.72	
DF6-10P-3.96C	546-0011-5	10	40.56	35.64	

Note: A packaging quantity is delivered by the bag unit (100 pcs.).

Crimping Contact



Slip length

DF6-1822PC (F): 2.1mm to 2.6mm

DF6A-1822PC (F): 2.3mm to 2.8mm

•Applicable through-hole: 1.8 +0.15

Dort Number CL No		Applicable Cable				Quantity	•		C	Dallo	
Part Number	CL No.	UL style	Jacket dia.	AWG size	Contact Construct	Packaging Type	Quantity	A	D	C	RoHS
DF6 -1822PCF(05)	546-0009-3-05	1007	1.5 to 2.2mm	AWG 18	34 cores/0.18mm	Reel	5,000	10.2	1.5	1.2	
DF6 -1822PC(05)	546-0010-2-05	1007	1.5 10 2.2000		21 cores/0.18mm	Bad	100	10.2	1.5	1.2	YES
DF6A-1822PCF(05)	546-0013-0-05	1015	2.2 to 2.9mm	AWG 20 AWG 22	17 cores/0.16mm	Reel	3,000	10.5	17	1.4	153
DF6A-1822PC(05)	546-0014-3-05	1015	2.2 10 2.911111	AWG 22		Bag	100	10.5	1.7	1.4	

Note 1. The applicable cable conductor is a tin plated and annealed copper wire.

Note 2. If other cables are used instead of the applicable cable, contact the Hirose Sales Department.

Applicable Crimping Tools

TypeItem	Part Number	CL No.	Applicable Contact
Anglianter	AP105-DF6-1822P	901-4505-9	DF6 -1822PCF(05)
Applicator	AP105-DF6A-1822P	901-4520-2	DF6A-1822PCF(05)
Press unit	CM-105	901-0005-4	
Manual crimping	DF6 -TA1822HC	550-0174-9	DF6 -1822PC(05)
tool	DF6A-TA1822HC	550-0222-0	DF6A-1822PC(05)
Extraction tool	DF-C-PO(A)	550-0170-8	DF6/DF6A-1822PC(F)(05)

Note: If any trouble has been caused due to other tools, which are not designated by Hirose, Hirose never guarantee any products.

Precautions

1.Recommended soldering	Flow: 250°C for 3 seconds		
condition Manual soldering: 290°C for 2 seconds			
	After soldering, if a load is given to the cable where connector and cable contain heat, the jacket holding member will be loosened. After soldering, the operation should be performed, after connector returns to room temperature.		
2.Cleaning condition	Refer to the "Nylon Connector Use Hand book".		
	Don't use solvent to degrade the cable jacket like trichloroethane.		
	In addition, avoid heat cleaning with solvent.		
3.Connecting condition	Refer to the "Nylon Connector Use Hand book".		
4.Precations	Slight discoloration on the insulating materials will not affect form, fit or function of the connectors.		
	Refer to "Nylon Connector Use Handbook"		